



DATE: May 25, 2010

TO: BIDDERS
RE: AUTO SIDE LOADER REFUSE TRUCK-FBR 759-10

ADDENDUM NO. 1

The purpose of this addendum is to communicate the change of specifications from the exceptions period which closed Thursday May 20, 2010.

The changes in specifications are in red: Page 11: item 2: Page 12: item 2g, 2n, 3e, 4b, 6c: Page 13: item 7b, 9i.

Please remove the original specification pages from your bid and insert these published with **Addendum 1**.

Please sign and return a copy of this bid addendum with your bid package. Your signed response is required for your quote to be considered.

City of Asheville
Amy Patterson
Purchasing Manager

Addendum #1 Received and Acknowledged By:

Company _____ Representative's Name: _____

Date: _____

PURCHASING
CITY OF ASHEVILLE
POST OFFICE BOX 7148
ASHEVILLE, NC 28802

(828) 259-5950

AUTO LOADER REFUSE TRUCK

Minimum technical specifications for **One (1) Auto Side Loader Refuse Truck** to be used by the Public Works Department, Sanitation Division. Unit shall be new, unused and untitled production model. All Federal, State and OSHA requirements and standards shall be met.

NOTE: Equipment proposed in response to this bid request should meet or exceed these detailed specifications. Bidders should review the specification details below and indicate if the proposed equipment complies (Yes) or (No) with the stated specification. If the proposed equipment does not comply, a written request for consideration of all exceptions/deviations must be submitted to the Purchasing Division by the bid exceptions deadline identified herein (*see bid page 5, item no. 8)

CITY OF ASHEVILLE SPECIFICATION	COMPLIES	IF NO: <u>DEVIATES AS NOTED</u>
1) Model/Cab/Chassis:		
a) Low cab forward design, similar to Autocar ACX 6x4. Right hand drive only and manufacturer's latest production model.		
b) GVWR to be 66,000 lbs minimum, (20,000 lb front and 46,000 lb rear)		
c) Wheelbase to be approximately 221"		
d) After Frame dimension to be 80"		
e) Cab to axle dimension to be approximately 198"		
f) Frame RBM to be a minimum of 2,750,000 lb-in sq.		
2) Engine & Equipment:		
Diesel Engine with minimum of 380 hp and 1,450 lb-ft torque. Engine must meet standards for the year it was produced utilizing Ultra Low Sulfur Diesel (USLD) or B5 Biodiesel		
a) Include front mounted PTO		
b) Skid Plate to Protect Radiator		
c) Extended life Anti-Freeze to -40F		
d) Silicon hoses with steel tubing and constant torque clamps		
e) Leece Neville 12V 200 AMP minimum Heavy Duty Alternator or equivalent		
f) Minimum Two (2) Group 31, 12 volt batteries with minimum of 2200 CCA total		
Company Name:	Submitted By:	

SPECIFICATIONS	COMPLIES	IF NO: DEVIATES AS NOTED
g) Exhaust to be mounted on the left hand side (street side) of truck.		
h) Bendix 16.5 minimum CFM Air Compressor or Equal.		
i) Shutdown engine protection for Low Oil Pressure and Water Temperature or equal.		
j) Single Spin-On Combination Oil Filter Full Flow/ Bypass or Equivalent.		
k) Must meet Federal Noise Requirements for truck class specified.		
l) Engine Block Heater, Phillips 110V – 120V 1500W compatible with engine supplied or equal.		
m) Power Steering		
n) Include Biodiesel Fuel Water Separator such as Davco 384 or equivalent		
3) Transmission:		
a) Allison 4500 6-Speed automatic transmission @ 1500 LB-FT torque, input power 500 HP programming refuse special. WTEC calibration – program 146		
b) Oil to Water type transmission cooler		
c) Transmission fluid to be synthetic		
d) Transmission controls to be pushbutton type with oil level sensor		
e) Include Output Retarder on Transmission		
4) Frame & Equipment:		
a) Braking system to include Bendix ADIP with heater or equivalent		
b) Brake air reservoir tanks to include central air tank drain valve manifold with automatic "spitter valve"		
c) Battery shutoff switch at battery box		
d) Front bumper to be heavy duty steel channel with frame reinforcements and lift eyes or hooks		
e) Include steel engine oil pan guard		
f) Tow hooks front and rear		
5) Front Axle & Equipment:		
a) 20,000 lb minimum with Meritor (Rockwell) Q-Pulse 16.5 X 6 Front Brakes for refuse service		
b) Meritor (Rockwell) Automatic slack adjusters S-CAM type or equal		
c) Remote mounted power steering reservoir		
d) Visible oil seal caps		
e) Chicago Rawhide oil seals or equal		
6) Tandem Rear Axle & Equipment:		
a) 46,000 lb rear minimum		
b) 5.38 Rear Axle Ratio.		
c) Anti-Spin devices include a minimum of Wheel Locks and Differential Locks or equal		
d) Rear suspension Hendrickson type HMX style with 46,000 Lbs minimum capacity or equivalent.		
Company Name:	Submitted By:	

SPECIFICATION	COMPLIES	IF NO: DEVIATES AS NOTED
e) Meritor (Rockwell) Automatic slack adjusters S-CAM type or equal		
f) 16.5 X 7 Cam, Meritor (Rockwell), Q-Plus, rear brakes refuse service minimum size		
g) Bendix anti-lock braking system (ABS) or equal		
h) Parking brake, both rear tandem axles		
i) Chicago Rawhide rear axle oil seats, tandem axle		
7) Tires & Wheels:		
a) Front Wheels to be 22.5 X 9 steel or equivalent.		
b) Front tires to be 315/80 R 22.5 20 PLY radial tubeless XZY tread or equivalent		
c) Rear wheels to be 22.5 X 8.25 steel or equivalent.		
d) Rear tires to be 11 R 22.5 16 PLY radial tubeless On road/Off road tread		
e) Brake Drum to be Cast Iron		
f) One (1) Spare front tire mounted on rim.		
g) Two (2) Spare rear tires mounted on rims.		
8) Fuel Tank:		
a) 75 gallon capacity and mounted on the left hand side		
b) Indicate clearance from bottom of tank to ground, provide maximum clearance available and clearance will be scrutinized		
9) Cab & Equipment:		
a) Cab steel or aluminum construction with forward tilt		
b) Right hand drive only		
c) Dual Air horns mounted under cab and single electric horn		
d) West coast style heated mirrors with S/S arms, provide left (street) side remote control mirror with all controls within easy reach of driver		
e) Convex stainless steel clamp on mirrors, both sides		
f) Down view mirror over left hand door		
g) Entrance steps to cab mounted on both sides, including grab handles		
h) Interior to be grey or black		
i) Air conditioning to be factory installed integral with heater and defroster.		
j) Exterior color to be OEM standard production white		
k) Deluxe National Cush-N-Aire II air operated driver seat (right hand side) or equal. Seat to have lumbar and tilt adjustments		
l) Low back Stationary-Full foam vinyl passenger seat (left hand side) vinyl to be cordura seat covering, or equal, on both seats		
Company Name:	Submitted By:	

SPECIFICATION	COMPLIES	IF NO: DEVIATES AS NOTED
m) Left and right color keyed interior sun visor		
n) Back-up alarm		
o) Standard OEM gauges, including speedometer, odometer, tachometer, transmission temperature gauge, oil pressure, water temperature and volt meter		
p) Circuit protection, auto reset type II breakers		
q) Auxiliary battery (power) circuits provided in cab		
r) Five amber low profile marker lights on cab roof		
s) Stop, tail and turn lights, with integral dual back-up lights, all to be LED		
t) Breakaway-Round or Flush Mounted/Recessed front turn signals		
u) AM/FM standard OEM radio		
v) Dash or overhead console mounted radio speakers		
w) Rubber AM/FM Radio antenna A or B-Pillar mounted		
x) Windshield wipers with individual electric motors with intermittent option		
y) Door lock and ignition keyed alike		
z) Fire Extinguisher, mounted with bracket, 20 Lb.		
aa) Two (2) sets of Manufacturer's Operation, Parts, and Service Manuals to be furnished plus (1) CD Rom (Parts and Service)		
10)Paint (Chassis):		
a) Chassis shall be painted in accordance with paint manufacturers recommendations		
b) Cab to be standard production white		
c) Frame to be black		
11)Garbage Body Specifications:		
a) 31 Cubic yard capacity minimum (excluding hopper)		
b) Body sidewalls to be a minimum of 12 gauge steel		
c) Body Roof to be a minimum of 12 gauge steel		
d) Body Floor to be a minimum of 10 gauge steel		
e) Body props must be provided to hold the empty body in a raised position for serving the unit		
f) Debris unloading will be by dumping process rather than by ejection process		
g) The body shall be equipped with truck-lite brand lights or equal. All lights must meet all state and federal regulations		
h) Lights on the tailgate shall be recessed and sealed for maximum protection		
i) Gross vehicle weight rating (GVWR) not to exceed 66,000 lbs		
Company Name:	Submitted By:	

SPECIFICATION	COMPLIES	IF NO: DEVIATES AS NOTED
j) Body length not to exceed 25'		
k) Body width not to exceed 96"		
12)Hopper Specifications:		
a) Hopper depth to be a minimum of 56", width to be a minimum of 66" and length to be a minimum of 69"		
b) Hopper capacity to be a minimum of 6.5 cu yd		
c) Hopper follower panel to be a minimum of 1/4" thick		
d) Provide hopper access door on curbside of truck		
13)Tailgate Specifications:		
a) Rear tailgate to be hydraulically operated with automatic lock mechanism and hydraulic safety locks		
b) Tailgate hydraulic line to be equipped with flow restrictor to prevent sudden descent		
c) Cab mounted audible alarm to indicate when tailgate is unlocked		
d) Cab mounted manual control with safety lock to prevent accidental activation		
e) Tailgate safety prop		
f) Tailgate shall be minimum 12 gauge thick steel		
g) A heavy duty rubber seal to be installed the full circumference of the tailgate to prevent leakage		
14)Packer Specifications:		
a) Hydraulically actuated packer, ensure packing operation does not occur while vehicle is in motion to minimize debris blowing out hopper area		
b) Cycle time must be no more than 15 seconds		
c) Packer force to be a minimum of 75,000 lbs		
d) Packer controls to consist of Start, Retract, and Emergency Stop. Control buttons to be heavy duty industrial style, color coded, corrosion proof and weather resistant		
e) Maximum hydraulic operating pressure to be 3,000 psi		
f) Maximum compaction of refuse to be 900 lbs/cu yd		
g) Packing force to be a minimum of 66,000 lb ft		
h) Packing ram to be a minimum of 65" wide and 24" high		
15)Hydraulic Specifications:		
a) Hydraulic system comprised of 2 pumps, 1 for body functions and the other for the side loader arm		
b) All hydraulic hoses to be 2-wire with hose protection wrap to prevent chafing and designed to meet recommended S.A.E. designed pressures		
c) All hydraulic tubing to be securely fastened to prevent vibration and abrasion		
Company Name:	Submitted By:	

SPECIFICATION	COMPLIES	IF NO: DEVIATES AS NOTED
d) Quick disconnect fittings provided so a pressure gauge can be connected without the use of tools		
e) Frame mounted hydraulic tank, minimum 70 gal, with sight gauge, magnetic drain plug, and shut off valve in suction line also indicate clearance from bottom of tank to ground as clearance will be scrutinized		
f) Suction line filter to have replaceable cartridge element with filtration down to 7 micron maximum		
g) Return line filter to have replaceable cartridge element and bypass valve and a differential pressure filter indicator		
16)Cylinders:		
a) All cylinders shall be manufactured with hard chrome plated rods, hardened steel bushing with zerk fittings, oil tight O-rings, zinc phosphate head glands and urethane seals		
b) Packer panel cylinders must be designed to allow access for simple replacement.		
17)Lifting Arm Specifications:		
a) Grabber opening to allow picking up of 2 (two) 100 gal containers at once		
b) Grabber controls to be operated by "Joystick "		
c) Grabber arm lifting capacity 1000 lbs minimum		
d) Lift Arm shall have a minimum side reach of 132 in		
e) Lock valve shall be integrated in each lock cylinder to prevent arm movement without joystick function		
f) Lifting mechanism shall be stowed within the 96-inch maximum chassis width while vehicle is in motion		
g) The lifting arm shall operate a full cycle at engine idle in 10 seconds or less		
Company Name:	Submitted By:	

SPECIFICATION	COMPLIES	IF NO: DEVIATES AS NOTED
h) Lifting mechanism shall be capable of operating during any simultaneous phase of the pack operation		
i) Arm to be designed to incorporate switches to automatically switch camera from side to hopper and back again as operation is enabled		
j) Lift controls shall be located on right (curb) side of the cab operation with ergonomically designed padded arm rests		
18)Painting (Garbage Body):		
a) All components must be prepped and primed in accordance with paint manufacturer's recommendations		
b) Paint to match chassis white		
19)Lettering (On Garbage Body):		
a) Lettering to be vinyl lettering directly applied to side body panels		
b) Lettering will read as follows: City of Asheville Solid Waste Division (In 4 Inch Black Letters) Quality Service with Pride (In 6 Inch Recycle/Safety green letters.) Exact Lettering will be Provided After Bid.		
20): Additional Equipment (include in total bid amount)		
a) Color camera mounted for rear backup view - Clarion or equal		
b) Color camera mounted for left side view – Clarion or equal		
c) Color camera mounted for hopper view –Clarion or equal		
d) Inside cab mounted camera view monitor with switch able display		
e) One (1) Hopper work light, mounted.		
f) Quad flashing amber and white 4" LED lights mounted on rear of body - two (2) mounted high and two (2) mounted low. Integrated strobe lighting with headlights on front of truck. Brake lights must remain functional even when 4-way flashers continue to operate. All red and amber required/provided shall meet or exceed all Federal and State rules and regulations as well as FMVSS 108.		
g) Refuse body manufacturer's Operation, Parts, and Service manuals - (2) sets (must be "As-built")		
h) Manufacturers suggested list of required parts to be stocked during the first year of operation, including manufacturers suggested list price.		
Company Name:	Submitted By:	

SPECIFICATION	COMPLIES	IF NO: DEVIATES AS NOTED
i) Mobile maintenance truck must be available and able to respond within 48 hours of notification.		
j) Bidder to furnish with their Bid a Notarized Affidavit stating the compaction of the unit proposed herein will be at least an average of 900 lbs. per cubic yard of residential refuse. The above statement does not include white goods.		
k) Bidder to Furnish with their bid a list of references, minimum of 5 and preferable municipalities in this region that are currently using refuse trucks proposed herein. List to included name of Agency, Contact Person, Address and Telephone Number, Make and model number and date solid		
l) Bidder to furnish ½ -Day (4 Hrs.) Maintenance and operator training at the time to be coordinated by Fleet management. Training to cover operation of controls, systems and preventative maintenance procedures for truck chassis and refuse body.		
21) Options Priced Separately -		
a) 5 Year, 200,000 Mile Engine Warranty		
b) On-Board direct reading truck weight scale system		
c) Curbside mounted, lockable, water tight, sealed, right hand hinged tool box with door opening toward front of truck, aluminum diamond plate, 24" wide x 24" high x 24" long. DOT safety triangles, first aid kit, and rubber chock block with holder provided inside of toolbox.		
d) A cab mounted electronic container counter with reset		
e) 1 set of exterior brackets to hold (2) shovels and (2) brooms mounted curbside. Final mounting position to be determined at time of award to successful bidder		
22) Warranties - Vendor to supply all warranty statements applicable to the following requirements. All warranties cover 100% of all parts & labor.		
a) Body manufacturer for a period of three years minimum		
b) Engine for a period of three years minimum		
c) Transmission for a period of five years minimum		
d) Truck chassis manufacturer for a period of two years minimum		
e) Hydraulic cylinders for a period of three years minimum		
f) Hydraulic pump and valve bodies for a period of three years minimum		
g) All equipment not covered by the previous warranties shall be covered for a minimum of one year.		
Company Name:	Submitted By:	

SPECIFICATION	COMPLIES	IF NO: DEVIATES AS NOTED
23) State Inspection- North Carolina Safety/Emissions annual sticker required or Federal Inspection sticker acceptable		
24) Documentation – <u>Manufacturer’s Certificate of Origin, North Carolina Title Application (MVR-1) and a copy of the invoice.</u> “City of Asheville” is the owner on all paperwork. The physical and mail address is 173 South Charlotte Street, Asheville, NC 28801. All required paperwork must be included with vehicle at time of delivery. <u>Any missing paperwork at delivery will delay payment of vehicles.</u> Any questions contact Fleet Management at 828-259-5700.		
25) Training - Operator/mechanic training will be conducted at the customer’s premises at no charge to the customer		
26) Service Facilities - The chassis manufacturer shall operate a service facility capable of performing repairs associated with the equipment they represent. If the service facility is not within close proximity to the City of Asheville garage, a service truck capable of handling any service request must respond within 48 hours. The closest service facility shall be stocked with common replacement and high wear parts, as designated by the equipment manufacturer, and approved by the City of Asheville.		
27) Acceptance – Prior to acceptance of this bid item and final payment of invoice, this bid item shall be checked against the above written specifications. The item offered for bid must meet or exceed these specifications as agreed to and stated by the vendor.		
28) Delivery - F.O.B.: City of Asheville, Fleet Management 173 South Charlotte Street Asheville, NC 28801		

CONSIDERATION GIVEN IN THE EVALUATION OF ALTERNATE BIDS FOR AWARD WILL INCLUDE HISTORICAL OPERATING COST/MILE DATA, DELIVERY CAPABILITY, LOCAL DEALER WARRANTY & SERVICE COSTS AND OTHER FACTORS ROUTINELY CONSIDERED IN BID EVALUATIONS.

Company: _____ Submitted by: _____